

Union Calendar No. 56

106TH CONGRESS
1ST Session

H. R. 1184

[Report No. 106-99, Part I]

A BILL

To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977 for fiscal years 2000 and 2001, and for other purposes.

APRIL 19, 1999

Reported from the Committee on Science with an amendment

APRIL 19, 1999

Referral to the Committee on Resources extended for a period ending not later than April 19, 1999

APRIL 19, 1999

The Committee on Resources discharged; committed to the Committee of the Whole House on the State of the Union and ordered to be printed

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IN THE HOUSE OF REPRESENTATIVES

MARCH 18, 1999

Mr. SMITH of Michigan (for himself and Mrs. MORELLA) introduced the following bill; which was referred to the Committee on Science, and in addition to the Committee on Resources, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

APRIL 19, 1999

Reported from the Committee on Science with an amendment

[Strike out all after the enacting clause and insert the part printed in *italie*]

[For text of introduced bill, see copy of bill as introduced on March 18, 1999]

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A BILL

To authorize appropriations for carrying out the Earthquake Hazards Reduction Act of 1977 for fiscal years 2000 and 2001, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 *This Act may be cited as the “Earthquake Hazards*
5 *Reduction Authorization Act of 1999”.*

6 **SEC. 2. AUTHORIZATION OF APPROPRIATIONS.**

7 *(a) FEDERAL EMERGENCY MANAGEMENT AGENCY.—*
8 *Section 12(a) of the Earthquake Hazards Reduction Act of*
9 *1977 (42 U.S.C. 7706(a)) is amended—*

10 *(1) by striking “(1) GENERAL.—” and all that*
11 *follows through “(7) There” and inserting “GEN-*
12 *ERAL.—There”;*

13 *(2) by striking “1998, and” and inserting*
14 *“1998,”; and*

15 *(3) by inserting “, \$19,800,000 for the fiscal year*
16 *ending September 30, 2000, and \$20,400,000 for the*
17 *fiscal year ending September 30, 2001” after “Sep-*
18 *tember 30, 1999”.*

19 *(b) UNITED STATES GEOLOGICAL SURVEY.—(1) Sec-*
20 *tion 12(b) of the Earthquake Hazards Reduction Act of*
21 *1977 (42 U.S.C. 7706(b)) is amended—*

1 (A) by inserting “There are authorized to be ap-
2 propriated to the Secretary of the Interior for pur-
3 poses of carrying out, through the Director of the
4 United States Geological Survey, the responsibilities
5 that may be assigned to the Director under this Act
6 \$46,100,000 for fiscal year 2000, of which \$3,500,000
7 shall be used for the Global Seismic Network and
8 \$100,000 shall be used for the Scientific Earthquake
9 Studies Advisory Committee established under section
10 6 of the Earthquake Hazards Reduction Authoriza-
11 tion Act of 1999; and \$47,500,000 for fiscal year
12 2001, of which \$3,600,000 shall be used for the Global
13 Seismic Network and \$100,000 shall be used for the
14 Scientific Earthquake Studies Advisory Committee es-
15 tablished under section 6 of the Earthquake Hazards
16 Reduction Authorization Act of 1999.” after “oper-
17 ated by the Agency.”;

18 (B) by striking “and” at the end of paragraph
19 (1);

20 (C) by striking the comma at the end of para-
21 graph (2) and inserting a semicolon; and

22 (D) by inserting after paragraph (2) the fol-
23 lowing new paragraphs:

24 “(3) \$9,000,000 of the amount authorized to be
25 appropriated for fiscal year 2000; and

1 “(4) \$9,500,000 of the amount authorized to be
2 appropriated for fiscal year 2001,”.

3 (2) Section 2(a)(7) of the Act entitled “An Act to au-
4 thorize appropriations for carrying out the Earthquake
5 Hazards Reduction Act of 1977 for fiscal years 1998 and
6 1999, and for other purposes” is amended by inserting “,
7 \$1,600,000 for fiscal year 2000, and \$1,650,000 for fiscal
8 year 2001” after “1998 and 1999”.

9 (c) NATIONAL SCIENCE FOUNDATION.—Section 12(c)
10 of the Earthquake Hazards Reduction Act of 1977 (42
11 U.S.C. 7706(c)) is amended—

12 (1) by striking “1998, and” and inserting
13 “1998,”; and

14 (2) by striking the period at the end and insert-
15 ing “, and (5) \$19,000,000 for engineering research
16 and \$10,900,000 for geosciences research for the fiscal
17 year ending September 30, 2000. There are authorized
18 to be appropriated to the National Science Founda-
19 tion \$19,600,000 for engineering research and
20 \$11,200,000 for geosciences research for fiscal year
21 2001.”.

22 (d) NATIONAL INSTITUTE OF STANDARDS AND TECH-
23 NOLOGY.—Section 12(d) of the Earthquake Hazards Reduc-
24 tion Act of 1977 (42 U.S.C. 7706(d)) is amended—

1 (1) by striking “1998, and”; and inserting
2 “1998,”; and

3 (2) by inserting “, \$2,200,000 for fiscal year
4 2000, and \$2,265,000 for fiscal year 2001” after
5 “September 30, 1999”.

6 **SEC. 3. REPEALS.**

7 Section 10 and subsections (e) and (f) of section 12
8 of the Earthquake Hazards Reduction Act of 1977 (42
9 U.S.C. 7705d and 7706 (e) and (f)) are repealed.

10 **SEC. 4. ADVANCED NATIONAL SEISMIC RESEARCH AND**
11 **MONITORING SYSTEM.**

12 The Earthquake Hazards Reduction Act of 1977 (42
13 U.S.C. 7701 et seq.) is amended by adding at the end the
14 following new section:

15 **“SEC. 13. ADVANCED NATIONAL SEISMIC RESEARCH AND**
16 **MONITORING SYSTEM.**

17 “(a) *ESTABLISHMENT.*—The Director of the United
18 States Geological Survey shall establish and operate an Ad-
19 vanced National Seismic Research and Monitoring System.
20 The purpose of such system shall be to organize, modernize,
21 standardize, and stabilize the national, regional, and urban
22 seismic monitoring systems in the United States, including
23 sensors, recorders, and data analysis centers, into a coordi-
24 nated system that will measure and record the full range
25 of frequencies and amplitudes exhibited by seismic waves,

1 *in order to enhance earthquake research and warning capa-*
 2 *bilities.*

3 “(b) *MANAGEMENT PLAN.*—*Not later than 120 days*
 4 *after the date of the enactment of the Earthquake Hazards*
 5 *Reduction Authorization Act of 1999, the Director of the*
 6 *United States Geological Survey shall transmit to the Con-*
 7 *gress a 5-year management plan for establishing and oper-*
 8 *ating the Advanced National Seismic Research and Moni-*
 9 *toring System. The plan shall include annual cost estimates*
 10 *for both modernization and operation, milestones, stand-*
 11 *ards, and performance goals, as well as plans for securing*
 12 *the participation of all existing networks in the Advanced*
 13 *National Seismic Research and Monitoring System and for*
 14 *establishing new, or enhancing existing, partnerships to le-*
 15 *verage resources.*

16 “(c) *AUTHORIZATION OF APPROPRIATIONS.*—

17 “(1) *EXPANSION AND MODERNIZATION.*—*In ad-*
 18 *dition to amounts appropriated under section 12(b),*
 19 *there are authorized to be appropriated to the Sec-*
 20 *retary of the Interior, to be used by the Director of*
 21 *the United States Geological Survey to establish the*
 22 *Advanced National Seismic Research and Monitoring*
 23 *System—*

24 “(A) \$33,500,000 for fiscal year 2000;

25 “(B) \$33,700,000 for fiscal year 2001;

1 “(C) \$35,100,000 for fiscal year 2002;

2 “(D) \$35,000,000 for fiscal year 2003; and

3 “(E) \$33,500,000 for fiscal year 2004.

4 “(2) *OPERATION.*—In addition to amounts ap-
 5 propriated under section 12(b), there are authorized
 6 to be appropriated to the Secretary of the Interior, to
 7 be used by the Director of the United States Geologi-
 8 cal Survey to operate the Advanced National Seismic
 9 Research and Monitoring System—

10 “(A) \$4,500,000 for fiscal year 2000; and

11 “(B) \$10,300,000 for fiscal year 2001.”.

12 **SEC. 5. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**
 13 **ULATION.**

14 *The Earthquake Hazards Reduction Act of 1977 (42*
 15 *U.S.C. 7701 et seq.) is amended by adding at the end the*
 16 *following new section:*

17 **“SEC. 14. NETWORK FOR EARTHQUAKE ENGINEERING SIM-**
 18 **ULATION.**

19 “(a) *ESTABLISHMENT.*—The Director of the National
 20 Science Foundation shall establish a Network for Earth-
 21 quake Engineering Simulation that will upgrade, link, and
 22 integrate a system of geographically distributed experi-
 23 mental facilities for earthquake engineering testing of full-
 24 sized structures and their components and partial-scale
 25 physical models. The system shall be integrated through net-

1 *working software so that integrated models and databases*
 2 *can be used to create model-based simulation, and the com-*
 3 *ponents of the system shall be interconnected with a com-*
 4 *puter network and allow for remote access, information*
 5 *sharing, and collaborative research.*

6 “(b) *AUTHORIZATION OF APPROPRIATIONS.—In addi-*
 7 *tion to amounts appropriated under section 12(c), there are*
 8 *authorized to be appropriated, out of funds otherwise au-*
 9 *thorized to be appropriated to the National Science Foun-*
 10 *dation, \$7,700,000 for fiscal year 2000 for the Network for*
 11 *Earthquake Engineering Simulation. In addition to*
 12 *amounts appropriated under section 12(c), there are au-*
 13 *thorized to be appropriated to the National Science Foun-*
 14 *dation for the Network for Earthquake Engineering*
 15 *Simulation—*

16 “(1) \$28,200,000 for fiscal year 2001;
 17 “(2) \$24,400,000 for fiscal year 2002;
 18 “(3) \$4,500,000 for fiscal year 2003; and
 19 “(4) \$17,000,000 for fiscal year 2004.”.

20 **SEC. 6. SCIENTIFIC EARTHQUAKE STUDIES ADVISORY COM-**
 21 **MITTEE.**

22 (a) *ESTABLISHMENT.—The Director of the United*
 23 *States Geological Survey shall establish a Scientific Earth-*
 24 *quake Studies Advisory Committee.*

1 (b) *ORGANIZATION.*—*The Director shall establish pro-*
2 *cedures for selection of individuals not employed by the Fed-*
3 *eral Government who are qualified in the seismic sciences*
4 *and other appropriate fields and may, pursuant to such*
5 *procedures, select up to ten individuals, one of whom shall*
6 *be designated Chairman, to serve on the Advisory Com-*
7 *mittee. Selection of individuals for the Advisory Committee*
8 *shall be based solely on established records of distinguished*
9 *service, and the Director shall ensure that a reasonable*
10 *cross-section of views and expertise is represented. In select-*
11 *ing individuals to serve on the Advisory Committee, the Di-*
12 *rector shall seek and give due consideration to recommenda-*
13 *tions from the National Academy of Sciences, professional*
14 *societies, and other appropriate organizations.*

15 (c) *MEETINGS.*—*The Advisory Committee shall meet*
16 *at such times and places as may be designated by the Chair-*
17 *man in consultation with the Director.*

18 (d) *DUTIES.*—*The Advisory Committee shall advise the*
19 *Director on matters relating to the United States Geological*
20 *Survey's participation in the National Earthquake Haz-*
21 *ards Reduction Program, including the United States Geo-*
22 *logical Survey's roles, goals, and objectives within that Pro-*
23 *gram, its capabilities and research needs, guidance on*
24 *achieving major objectives, and establishing and measuring*
25 *performance goals. The Advisory Committee shall issue an*

1 *annual report to the Director for submission to Congress*
 2 *on or before September 30 of each year. The report shall*
 3 *describe the Advisory Committee's activities and address*
 4 *policy issues or matters that affect the United States Geo-*
 5 *logical Survey's participation in the National Earthquake*
 6 *Hazards Reduction Program.*

7 **SEC. 7. BUDGET COORDINATION.**

8 *Section 5 of the Earthquake Hazards Reduction Act*
 9 *of 1977 (42 U.S.C. 7704) is amended—*

10 *(1) in subsection (b)(1)—*

11 *(A) by striking subparagraph (A) and re-*
 12 *designating subparagraphs (B) through (F) as*
 13 *subparagraphs (A) through (E), respectively; and*

14 *(B) by moving subparagraph (E), as so re-*
 15 *designated by subparagraph (A) of this para-*
 16 *graph, so as to appear immediately after sub-*
 17 *paragraph (D), as so redesignated; and*

18 *(2) by adding at the end the following new sub-*
 19 *section:*

20 *“(c) BUDGET COORDINATION.—*

21 *“(1) GUIDANCE.—The Agency shall each year*
 22 *provide guidance to the other Program agencies con-*
 23 *cerning the preparation of requests for appropriations*
 24 *for activities related to the Program, and shall pre-*
 25 *pare, in conjunction with the other Program agencies,*

1 *an annual Program budget to be submitted to the Of-*
2 *fice of Management and Budget.*

3 *“(2) REPORTS.—Each Program agency shall in-*
4 *clude with its annual request for appropriations sub-*
5 *mitted to the Office of Management and Budget a re-*
6 *port that—*

7 *“(A) identifies each element of the proposed*
8 *Program activities of the agency;*

9 *“(B) specifies how each of these activities*
10 *contributes to the Program; and*

11 *“(C) states the portion of its request for ap-*
12 *propriations allocated to each element of the Pro-*
13 *gram.”.*

14 **SEC. 8. REPORT ON AT-RISK POPULATIONS.**

15 *Not later than one year after the date of the enactment*
16 *of this Act, and after a period for public comment, the Di-*
17 *rector of the Federal Emergency Management Agency shall*
18 *transmit to the Congress a report describing the elements*
19 *of the Program that specifically address the needs of at-risk*
20 *populations, including the elderly, persons with disabilities,*
21 *non-English-speaking families, single-parent households,*
22 *and the poor. Such report shall also identify additional ac-*
23 *tions that could be taken to address those needs, and make*
24 *recommendations for any additional legislative authority*
25 *required to take such actions.*

1 **SEC. 9. PUBLIC ACCESS TO EARTHQUAKE INFORMATION.**

2 *Section 5(b)(2)(A)(ii) of the Earthquake Hazards Re-*
3 *duction Act of 1977 (42 U.S.C. 7704(b)(2)(A)(ii)) is amend-*
4 *ed by inserting “, and development of means of increasing*
5 *public access to available locality-specific information that*
6 *may assist the public in preparing for or responding to*
7 *earthquakes” after “and the general public”.*

8 **SEC. 10. LIFELINES.**

9 *Section 4(6) of the Earthquake Hazards Reduction Act*
10 *of 1977 (42 U.S.C. 7703(6)) is amended by inserting “and*
11 *infrastructure” after “communication facilities”.*